Index of Claims



| Application/Cor | itrol | No. |
|-----------------|-------|-----|
|-----------------|-------|-----|

10/816,150

ELFADEL, IBRAHIM M.

Applicant(s)/Patent under Reexamination

Art Unit

Examiner

Shambhavi Patel

2128

| <b>√</b> | Rejected |
|----------|----------|
| 11       | Allowed  |

\_ (Through numeral) Cancelled

Restricted

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla          |                                                                      |          |                                       |                                       | Date                                             | •        |                |                                                  |                                                  |                 |
|--------------|----------------------------------------------------------------------|----------|---------------------------------------|---------------------------------------|--------------------------------------------------|----------|----------------|--------------------------------------------------|--------------------------------------------------|-----------------|
| Final        | Original                                                             | 90/6/8   | 2/15/07                               | 7/30/07                               |                                                  |          |                |                                                  |                                                  |                 |
|              | 1                                                                    | 1        | 1                                     | 1                                     |                                                  |          |                | _                                                | H                                                | Н               |
|              | 2                                                                    | 1        | ٧                                     | 1                                     |                                                  |          |                |                                                  |                                                  | П               |
|              | 3                                                                    | 1        | 1                                     | V                                     |                                                  |          |                |                                                  |                                                  | П               |
|              | 4                                                                    | 1        | 1                                     | V                                     |                                                  |          |                |                                                  |                                                  | П               |
|              | 5                                                                    | 1        | 1                                     | 1                                     |                                                  |          | _              |                                                  |                                                  | M               |
|              | 6                                                                    | 7777     | 1 1 1 1                               | 7 7 7 7                               |                                                  |          |                |                                                  |                                                  |                 |
|              | 1<br>2<br>3<br>4<br>5<br>6                                           | 1        | 1                                     | √_                                    |                                                  |          |                |                                                  | _                                                |                 |
|              | 8<br>9                                                               | 7        | 1                                     | √                                     |                                                  |          |                |                                                  |                                                  |                 |
|              |                                                                      |          | 1                                     | 1                                     |                                                  |          |                |                                                  |                                                  |                 |
|              | 10                                                                   | 1        | 1                                     | 1                                     |                                                  |          |                |                                                  |                                                  | Ш               |
| <u> </u>     | 11                                                                   | 7 7      | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | <u> </u>                                         |          |                | Ш                                                |                                                  | Ш               |
|              | 12                                                                   | 1        | ļ٧                                    | 1                                     | <u> </u>                                         |          | Ш              | $oxed{}$                                         | L.                                               | Ш               |
|              | 13                                                                   | 1        | 1                                     | 1                                     | <u> </u>                                         | L.,      | Щ              | <u> </u>                                         | <u> </u>                                         | Ш               |
| <u> </u>     | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | 0        | 0                                     | ٧,                                    | <u> </u>                                         |          | L_             | <u> </u>                                         | _                                                | Ш               |
| <u> </u>     | 15                                                                   | 1        | 1                                     | 1                                     | <u> </u>                                         | ļ.,.     | L              |                                                  | _                                                | Ш               |
|              | 16                                                                   | 1        | 1                                     | V                                     | ⊢                                                |          |                | L                                                |                                                  | $\vdash$        |
|              | 1/                                                                   |          | 1                                     | ٧,                                    | $\vdash$                                         |          | $\vdash$       | $\vdash$                                         | <u> </u>                                         | $\vdash$        |
| <u> </u>     | 18                                                                   | Ō        | o                                     | Ļ                                     |                                                  |          | $\vdash$       | $\vdash$                                         | _                                                | Н               |
| <u> </u>     | 19                                                                   | 1        | 7                                     | 1                                     | <u> </u>                                         |          | H              | <u> </u>                                         | _                                                | Ш               |
|              | 20                                                                   | <u> </u> | · V                                   | <u> </u>                              | H.                                               |          | $\vdash$       | ┝                                                | <u> </u>                                         | $\dashv$        |
| <u> </u>     | 21                                                                   | ⊢        | <del> </del> —                        | ⊢                                     |                                                  |          | <u> </u>       | ┝                                                | <u> </u>                                         | H               |
| <del> </del> | 22                                                                   | ⊢        |                                       | -                                     | H                                                |          | ┝              | ┢                                                | ⊩                                                | -               |
|              | 22<br>23<br>24                                                       | ┢        | <del> </del>                          | ├                                     | ⊢                                                | -        |                | -                                                | $\vdash$                                         | Н               |
|              | 25                                                                   |          | 1                                     |                                       | $\vdash$                                         |          | ├              |                                                  | -                                                | Н               |
| -            | 25<br>26<br>27                                                       | ┢        |                                       | -                                     |                                                  |          |                |                                                  | -                                                | М               |
|              | 27                                                                   | 1        |                                       | t.                                    | Т                                                |          |                |                                                  |                                                  | П               |
|              | 28                                                                   | H        |                                       | Ė                                     |                                                  |          | _              | $\vdash$                                         | _                                                | Н               |
|              | 28<br>29                                                             |          |                                       | T                                     |                                                  |          |                |                                                  |                                                  | П               |
|              | 30                                                                   |          |                                       |                                       |                                                  |          |                | İ                                                |                                                  | П               |
|              | 31<br>32                                                             |          |                                       |                                       |                                                  |          |                |                                                  |                                                  |                 |
|              | 32                                                                   |          |                                       |                                       |                                                  |          | 4              |                                                  |                                                  |                 |
|              | 33                                                                   |          | L                                     |                                       | L                                                |          | L              |                                                  |                                                  | Ш               |
|              | 34                                                                   | <u> </u> | L                                     | L                                     |                                                  |          | <u> </u>       |                                                  |                                                  | Ш               |
|              | 35                                                                   | ļ        | L                                     | <u> </u>                              |                                                  |          | _              | _                                                |                                                  | Ц               |
|              | 36                                                                   |          |                                       | L                                     |                                                  | L        | _              |                                                  | <u> </u>                                         |                 |
|              | 37                                                                   | <u> </u> | _                                     |                                       | _                                                | ļ        |                |                                                  | <u> </u>                                         | Щ               |
|              | 38                                                                   | <u> </u> | <u> </u>                              | <u> </u>                              | ⊢                                                | _        | <u> </u>       | -                                                | <u> </u>                                         | _               |
|              | 39                                                                   | <u> </u> | <del> </del>                          | _                                     | ļ                                                | _        | <u> </u>       |                                                  | <u> </u>                                         | Ш               |
|              | 40                                                                   | ├        |                                       | <u> </u>                              | <u> </u>                                         | <u> </u> | <del> </del> — |                                                  | -                                                |                 |
|              | 41                                                                   | -        | ├                                     | $\vdash$                              | <del>                                     </del> | ⊢        | -              |                                                  | _                                                | -               |
|              | 42                                                                   | $\vdash$ | -                                     | <del>  -</del>                        | ├                                                | $\vdash$ | $\vdash$       | $\vdash$                                         | $\vdash$                                         | $\vdash$        |
|              | 44                                                                   | +-       | 1                                     | $\vdash$                              | $\vdash$                                         | -        |                | $\vdash$                                         | $\vdash$                                         | $\vdash$        |
|              | 45                                                                   | $t^-$    | $\vdash$                              | ┢                                     | <del>                                     </del> |          | $\vdash$       | <del> </del>                                     | <del>                                     </del> | $\vdash \vdash$ |
|              | 46                                                                   | T        | T                                     | T                                     |                                                  | _        | Т              | <del>                                     </del> | <del>                                     </del> | $\Box$          |
|              | 47                                                                   |          |                                       |                                       |                                                  |          |                |                                                  |                                                  | $\square$       |
|              | 48                                                                   |          |                                       |                                       |                                                  |          |                |                                                  |                                                  |                 |
|              | 49                                                                   |          |                                       |                                       |                                                  |          |                |                                                  |                                                  |                 |
|              | 50                                                                   |          |                                       |                                       |                                                  |          |                | <u> </u>                                         |                                                  |                 |

| Cla      | aim            | Date     |          |                                                  |          |              |              |          |          |              |
|----------|----------------|----------|----------|--------------------------------------------------|----------|--------------|--------------|----------|----------|--------------|
|          |                |          |          |                                                  |          |              |              |          |          |              |
| Final    | Original       |          |          |                                                  |          |              | ,            |          |          |              |
|          | 51             |          |          |                                                  |          |              |              |          |          |              |
|          | 52             |          |          |                                                  |          |              |              |          |          |              |
|          | 53             |          |          |                                                  |          |              |              |          |          |              |
| <u> </u> | 54             |          |          |                                                  |          |              |              |          |          |              |
|          | 55<br>56       |          |          |                                                  |          |              | _            |          | _        |              |
| -        | 57             |          |          |                                                  |          |              |              |          | Н        |              |
| -        | 58             |          |          |                                                  |          |              |              | _        |          | _            |
|          | 59             |          |          |                                                  |          |              |              |          |          |              |
|          | 60             |          |          |                                                  |          |              |              |          |          |              |
|          | 61             |          |          |                                                  |          |              |              | _        |          |              |
|          | 62             |          |          |                                                  |          |              | _            |          |          |              |
| -        | 63             |          |          | _                                                | $\vdash$ |              | -            |          | $\vdash$ |              |
| $\vdash$ | 64<br>65       |          |          |                                                  |          |              | H            | H        | $\vdash$ |              |
|          | 66             |          |          |                                                  |          | _            | -            |          | -        |              |
|          | 67             |          |          |                                                  |          |              | $\vdash$     |          |          |              |
|          | 68             |          |          |                                                  |          |              |              |          |          |              |
|          | 69             |          |          |                                                  |          |              |              |          |          |              |
|          | 70             |          |          | L.                                               |          |              | _            |          |          |              |
| ļ        | 71             |          | _        |                                                  |          |              |              | _        |          | _            |
|          | 72             |          |          |                                                  |          |              |              | _        |          |              |
|          | 73<br>74<br>75 | _        | _        |                                                  |          |              |              | _        |          |              |
| -        | 75             | _        |          |                                                  |          |              |              |          |          |              |
| -        | 76             |          |          | <del>                                     </del> | $\vdash$ |              |              | -        |          |              |
|          | 76<br>77       |          |          |                                                  |          |              | _            |          |          |              |
|          | 78             |          |          |                                                  |          |              |              |          |          |              |
| <u></u>  | 79             |          |          |                                                  |          |              |              |          |          |              |
| <u> </u> | 80             |          |          |                                                  |          |              | $oxed{oxed}$ |          |          |              |
|          | 81<br>82       |          |          | <u> </u>                                         | $\vdash$ | _            |              |          | H        | _            |
|          | 83             | _        |          | $\vdash$                                         | $\vdash$ | _            |              |          | ├─       | _            |
|          | 84             | -        | <b></b>  | -                                                |          | -            | $\vdash$     |          | -        | $\vdash$     |
|          | 85             |          | -        | <del>                                     </del> |          | Г            | $\vdash$     |          |          |              |
|          | 86             |          |          |                                                  |          |              |              |          |          |              |
|          | 87             |          |          |                                                  |          |              |              |          |          |              |
|          | 88             |          |          |                                                  |          | <u> </u>     | <u> </u>     | <u> </u> | L        | _            |
| -        | 89             |          | _        | _                                                | $\vdash$ | <u> </u>     | <u> </u>     | <u> </u> |          | L            |
| -        | 90             |          | -        |                                                  | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$ | <del> </del> |
| -        | 92             | $\vdash$ | $\vdash$ | -                                                | -        |              | -            | $\vdash$ | $\vdash$ | $\vdash$     |
|          | 93             | _        | $\vdash$ | $\vdash$                                         | $\vdash$ | <del> </del> | _            | -        | -        |              |
| -        | 94             | $\vdash$ |          |                                                  | $\vdash$ | Г            |              |          | _        | $\vdash$     |
|          | 95             |          |          |                                                  |          |              |              |          |          |              |
|          | 96             |          |          |                                                  |          |              |              |          |          |              |
|          | 97             |          |          |                                                  |          | L            | _            | <u> </u> | _        |              |
|          | 98             | _        | <u> </u> | _                                                | <u> </u> | <u> </u>     | -            | H        | $\vdash$ | _            |
| -        | 99             | ŀ        | -        |                                                  | $\vdash$ | _            | $\vdash$     | H        | ⊢        |              |
|          | 100            | L        | <u> </u> |                                                  |          |              |              |          | L        | Щ            |

|               | D-1-                                                        |          |          |          |              |              |              |              |          |                                              |
|---------------|-------------------------------------------------------------|----------|----------|----------|--------------|--------------|--------------|--------------|----------|----------------------------------------------|
| Cla           | aim                                                         |          |          |          |              |              |              |              |          |                                              |
| Final         | Original                                                    |          |          |          |              |              |              |              |          |                                              |
|               | 101                                                         |          |          |          |              |              |              |              |          |                                              |
|               | 101<br>102                                                  |          |          |          | $\Box$       |              |              |              |          | ヿ                                            |
|               | 103                                                         |          |          |          |              |              |              |              |          |                                              |
|               | 104                                                         |          |          |          |              |              |              |              |          |                                              |
|               | 103<br>104<br>105                                           |          |          |          |              |              |              |              |          |                                              |
|               | 106                                                         |          |          |          |              |              |              |              |          | _                                            |
|               | 106<br>107<br>108                                           |          | _        |          |              |              |              |              | _        |                                              |
|               | 108                                                         |          | _        |          |              |              |              | _            | _        |                                              |
|               | 109                                                         | $\Box$   | _        |          |              |              |              |              |          |                                              |
|               | 110<br>111                                                  | -        |          |          |              |              |              | -            |          |                                              |
|               | 111                                                         | $\vdash$ | _        | -        | H            |              |              | Н            | -        |                                              |
|               | 112                                                         |          | _        | -        | $\vdash$     |              | H            | $\vdash$     | -        | $\dashv$                                     |
|               | 112<br>113<br>114<br>115<br>116<br>117<br>118<br>119        | $\vdash$ | Н        |          |              |              | -            | $\vdash$     | -        | $\dashv$                                     |
|               | 115                                                         | $\dashv$ | $\vdash$ | _        |              |              |              |              |          |                                              |
|               | 116                                                         |          |          |          |              |              | -            |              |          | $\dashv$                                     |
|               | 117                                                         |          |          |          |              |              |              |              |          | $\neg$                                       |
|               | 118                                                         |          |          |          |              | -            | _            |              |          | Ħ                                            |
|               | 119                                                         |          |          |          |              |              |              |              |          |                                              |
|               | 120                                                         |          |          |          |              |              |              |              | -        |                                              |
|               | 121                                                         |          |          | -        |              |              | _            |              |          |                                              |
|               | 122                                                         |          |          |          |              | -            |              |              |          |                                              |
|               | 123                                                         |          |          |          |              |              |              |              |          |                                              |
|               | 124                                                         |          |          |          |              |              |              |              |          |                                              |
|               | 125                                                         |          |          |          |              |              |              |              |          | <u>.                                    </u> |
|               | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128 |          |          |          |              |              |              |              |          |                                              |
| L             | 127                                                         |          |          |          |              |              | _            |              |          | Ш                                            |
| ļ             | 128                                                         |          |          |          |              |              | <u> </u>     |              |          |                                              |
|               | 129<br>130<br>131                                           | _        | _        |          | $\vdash$     |              | _            |              |          | $\dashv$                                     |
| <u> </u>      | 130                                                         |          |          | _        |              |              | _            |              |          | _                                            |
| <del> </del>  | 137                                                         |          |          |          | H            |              | <u> </u>     |              |          | $\vdash$                                     |
| <u> </u>      | 132<br>133<br>134                                           | $\vdash$ |          |          | $\vdash$     |              | -            |              |          | $\overline{}$                                |
|               | 134                                                         |          |          |          |              | -            |              | _            | -        | $\vdash$                                     |
|               | 135                                                         |          |          |          |              | _            | -            |              |          |                                              |
|               | 135<br>136                                                  |          |          |          |              | $\vdash$     |              |              |          |                                              |
|               | 137                                                         |          |          |          |              | $\vdash$     |              | $\vdash$     |          |                                              |
|               | 138                                                         |          | _        |          |              |              |              |              |          |                                              |
|               | 139                                                         |          |          |          |              |              |              |              |          |                                              |
|               | 140                                                         |          |          |          |              |              |              |              |          | Ш                                            |
| <u> </u>      | 141                                                         |          | <u> </u> |          | _            |              | <u> </u>     | <u> </u>     | L        | Ш                                            |
| <u> </u>      | 142                                                         |          | _        | _        | <u> </u>     | <u> </u>     | <u> </u>     | L_           | _        |                                              |
|               | 143                                                         | $\vdash$ | L.,      | _        | <del> </del> | L-           |              | <u> </u>     | <u> </u> |                                              |
| <u> </u>      | 144                                                         | $\vdash$ |          | $\vdash$ | <del> </del> | ⊢            | <u> </u>     | <u> </u>     | <u> </u> | Ш                                            |
| <u> </u>      | 145                                                         | _        |          | _        | <u> </u>     | <u> </u>     | <u> </u>     | ⊢            | <u> </u> | $\vdash \vdash$                              |
| <del></del> . | 146                                                         |          | <u> </u> | _        | <u> </u>     | -            | ⊢            | ├            | -        | $\vdash \vdash$                              |
| -             | 147<br>148                                                  |          |          | _        | $\vdash$     | $\vdash$     | $\vdash$     | -            | <u> </u> | $\vdash$                                     |
| $\vdash$      | 148                                                         | $\vdash$ | <u> </u> | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash$     |              | <u> </u> | $\vdash$                                     |
|               | 150                                                         |          | $\vdash$ | $\vdash$ |              | <del> </del> | <del> </del> | <del> </del> | $\vdash$ | $\vdash$                                     |
| L             | 1.00                                                        | 1        |          | 1        | L            | l            | <u> </u>     |              |          | ш                                            |